

ABSTRACT

A data driven discrete parallel processing computing system for searches with a key-ordered list of data objects distributed over a plurality of servers. The invention is a data-driven architecture for distributed segmented databases consisting of lists of objects. The database is divided into segments based on content and distributed over a multiplicity of servers. Updates and queries are data driven and determine the segment and server to which they must be directed avoiding broadcasting. This is effective for systems such as search engines. Each object in the list of data objects must have a key on which the objects can be sorted relative to each other. Each segment is self-contained and doesn't rely on a schema. Multiple simultaneous queries and simultaneous updates and queries on different segments on different servers result in parallel processing on the database taken as a whole.